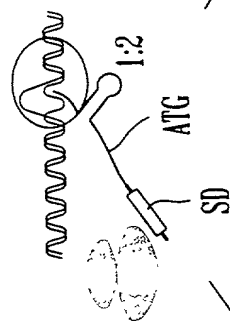


RNA polymerase stops at pause site in attenuator region [J.Mol.Biol.(1997),268,54-68]

Ribosome binds, starts translation and releases the RNA polymerase



EXCESS  
Ribosome stalls at STOP codon

STARVATION

Ribosome stalls at "sense" aminoacid codons

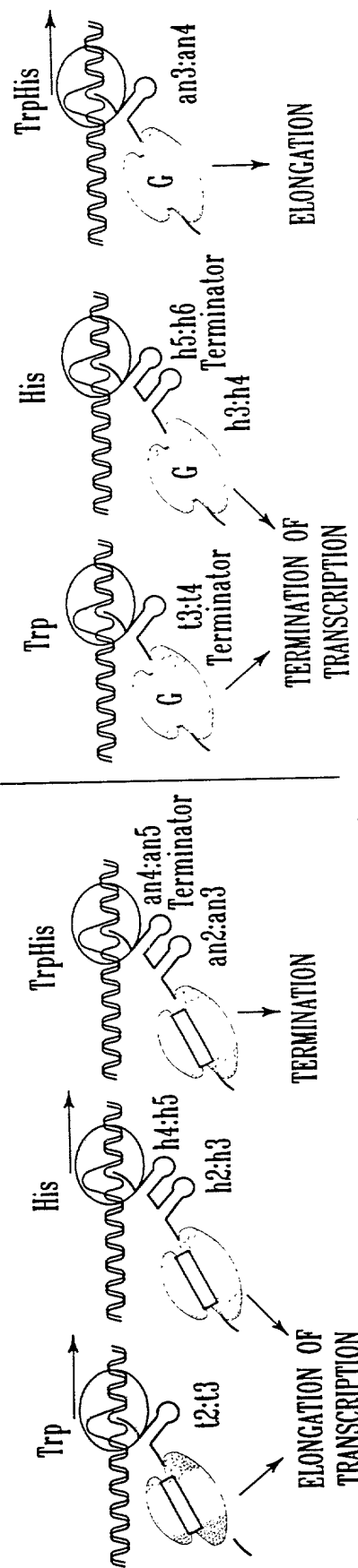
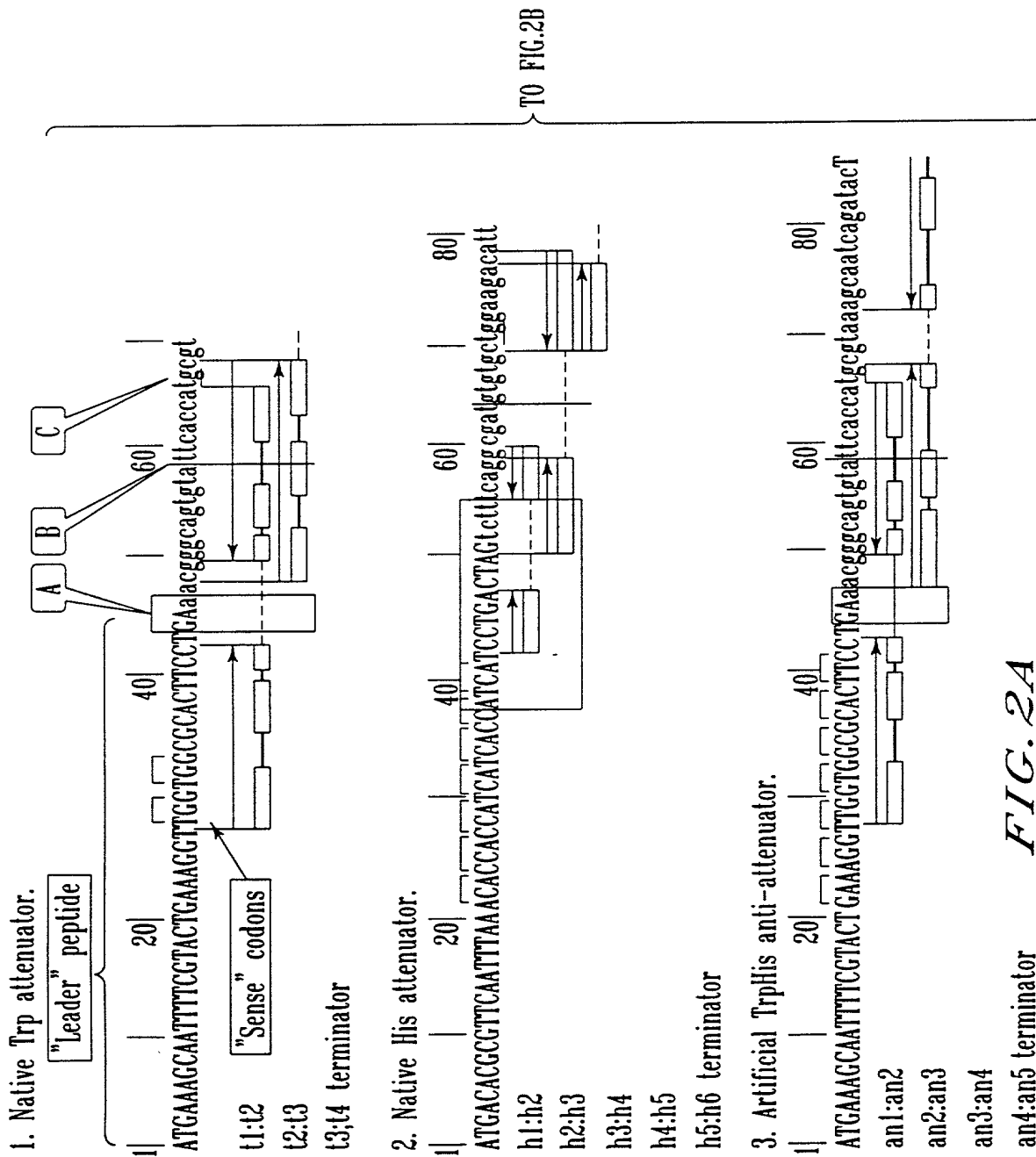


FIG. 1



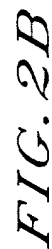
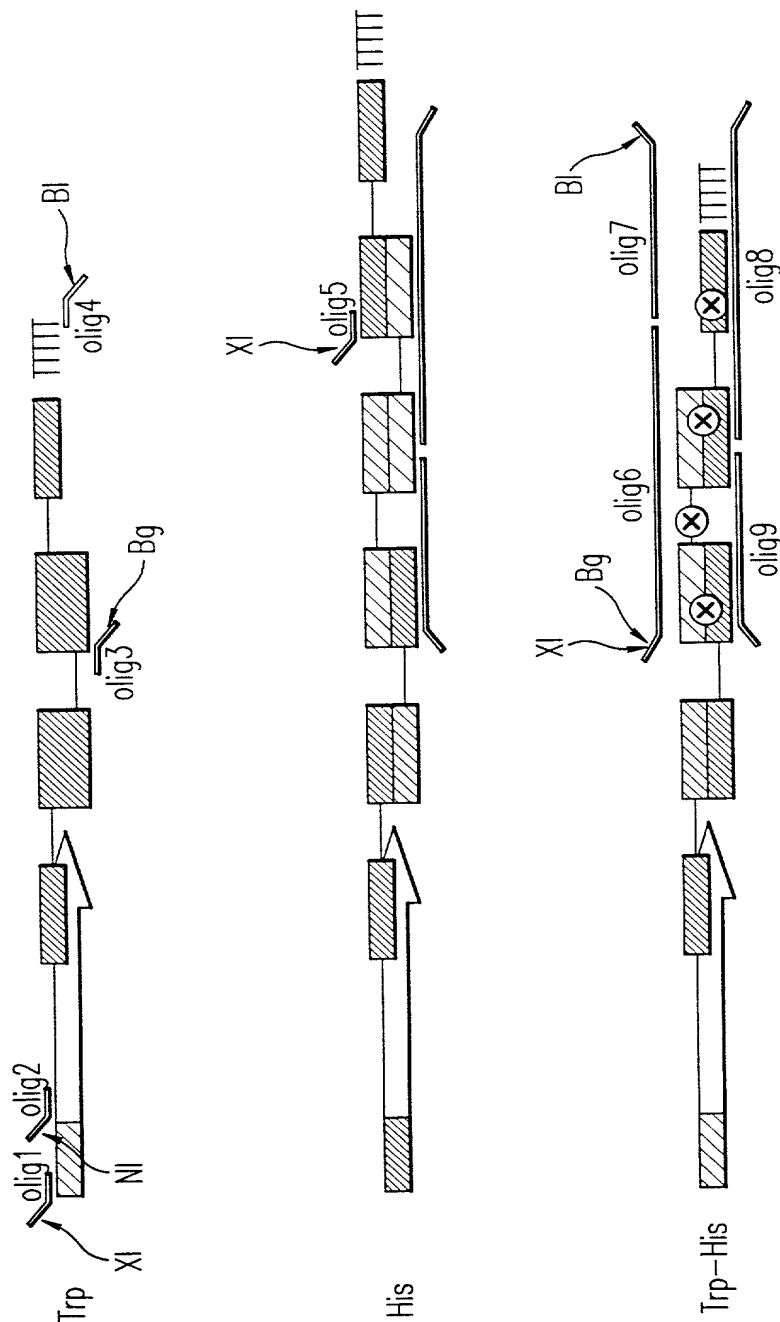


FIG. 3a

GENERAL SCHEME OF THE NEW ARTIFICIAL "ANTI-ATTENUATOR" REGULATORY ELEMENT CONSTRUCTION



⊗ - NUCLEOTIDE CHANGING IN COMPARISON TO THE NATIVE SEQUENCE.

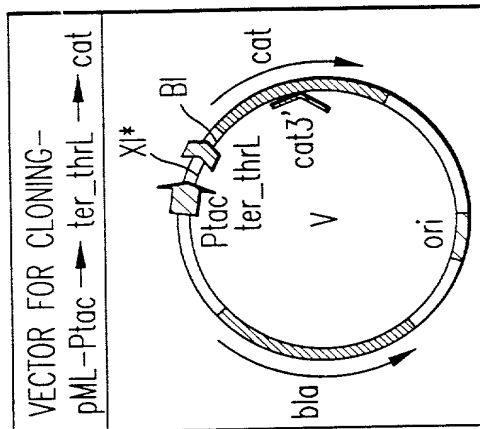


FIG. 3b

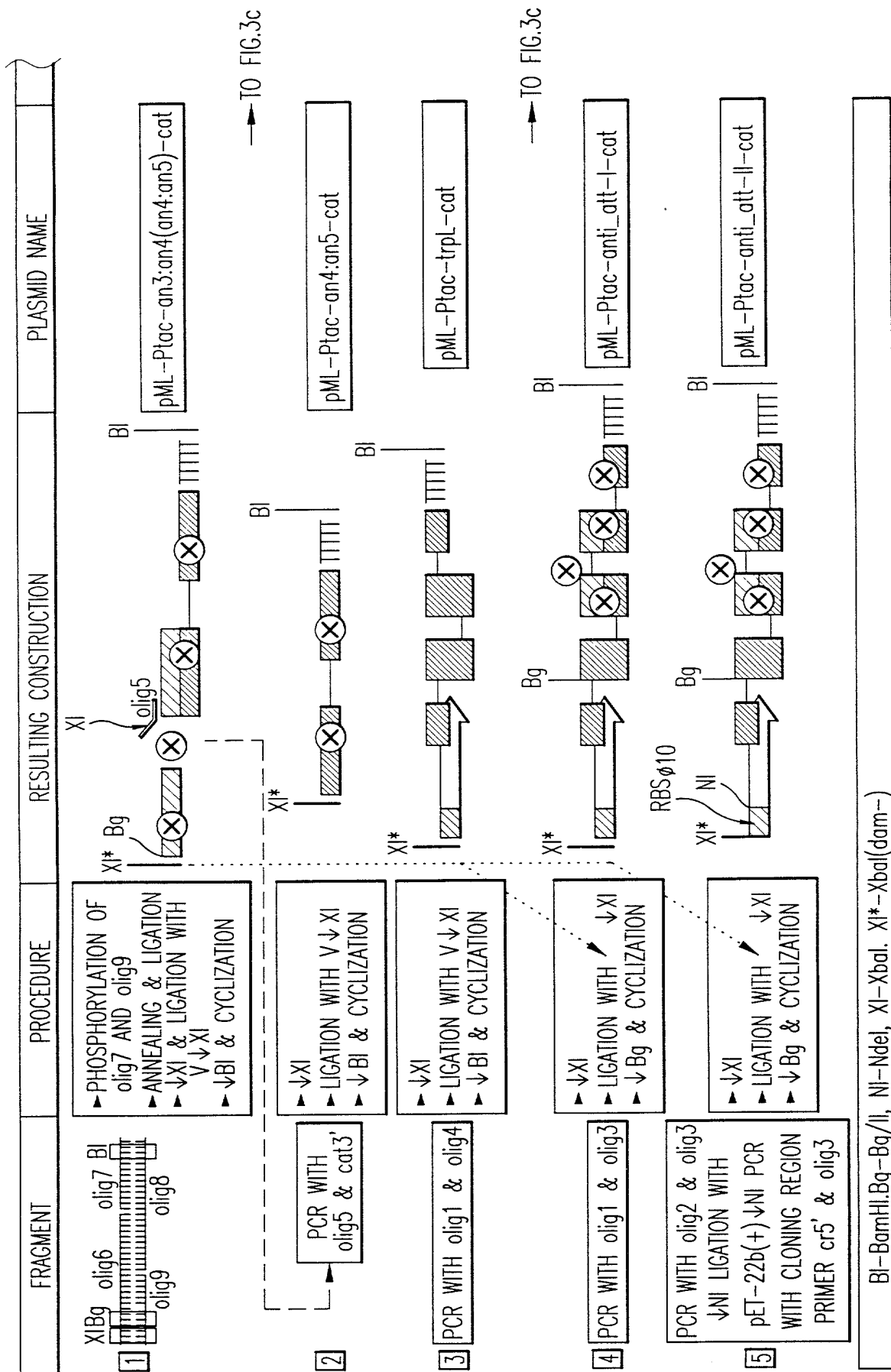
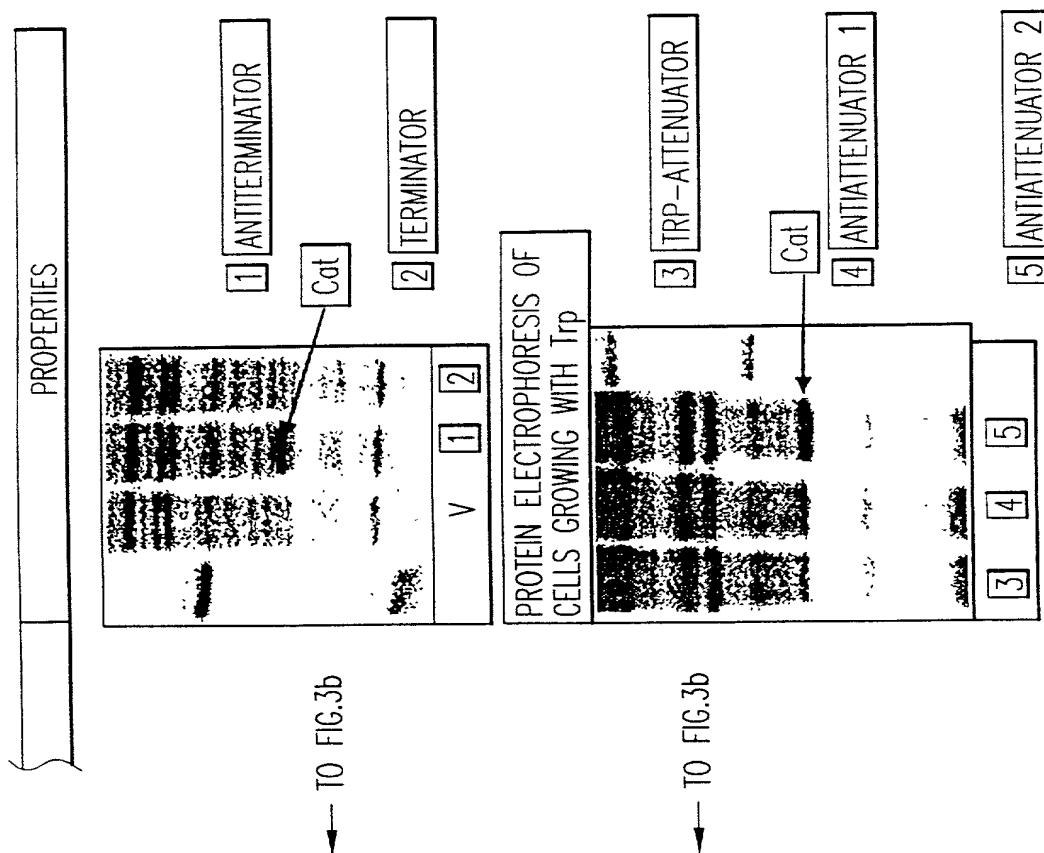


FIG. 3c



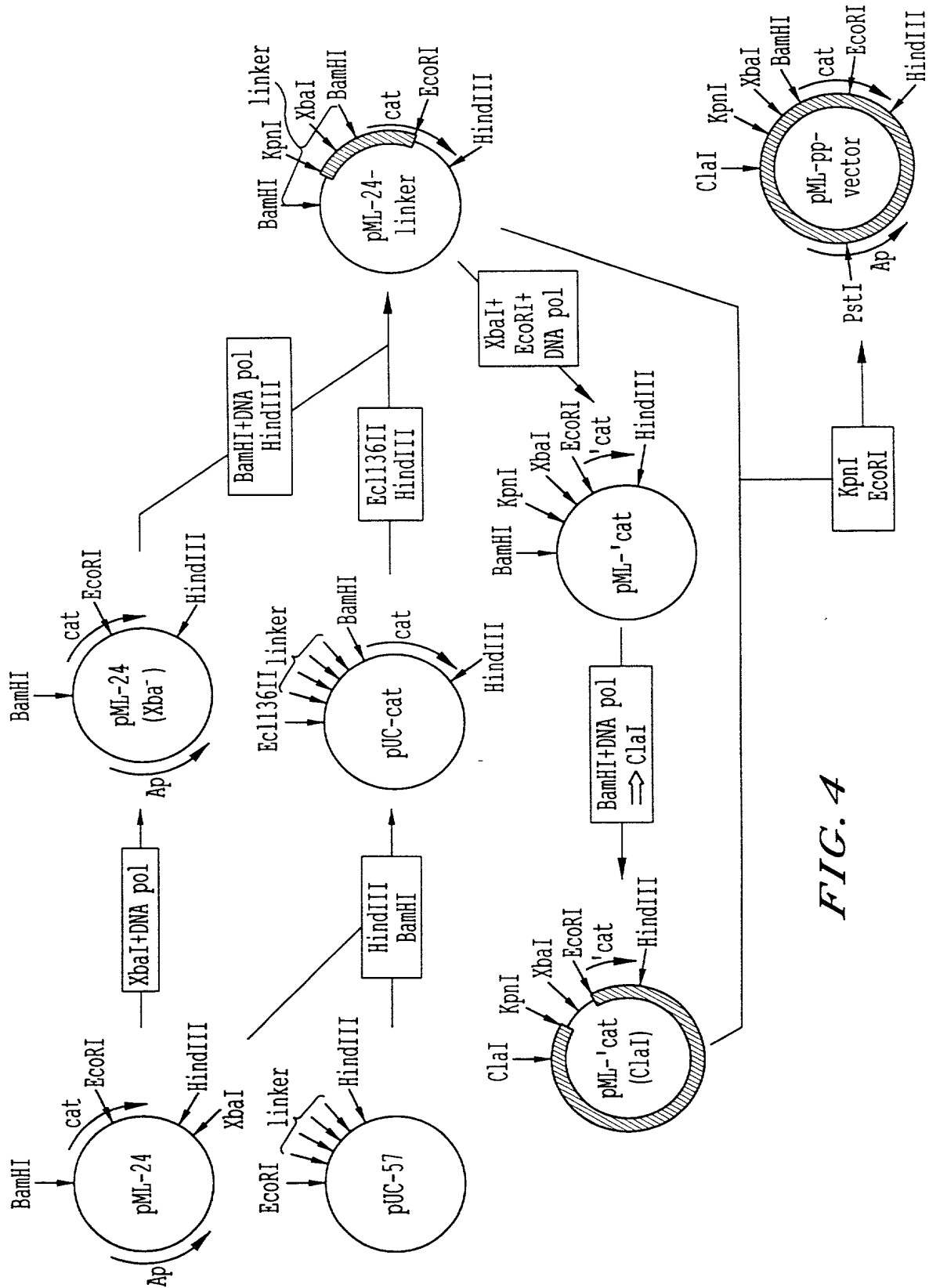


FIG. 4

